

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011610

Luminaire Tested: S123DIP-B340D585UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011610
REPORT IS A COMBINATION OF REPORTS P989835 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

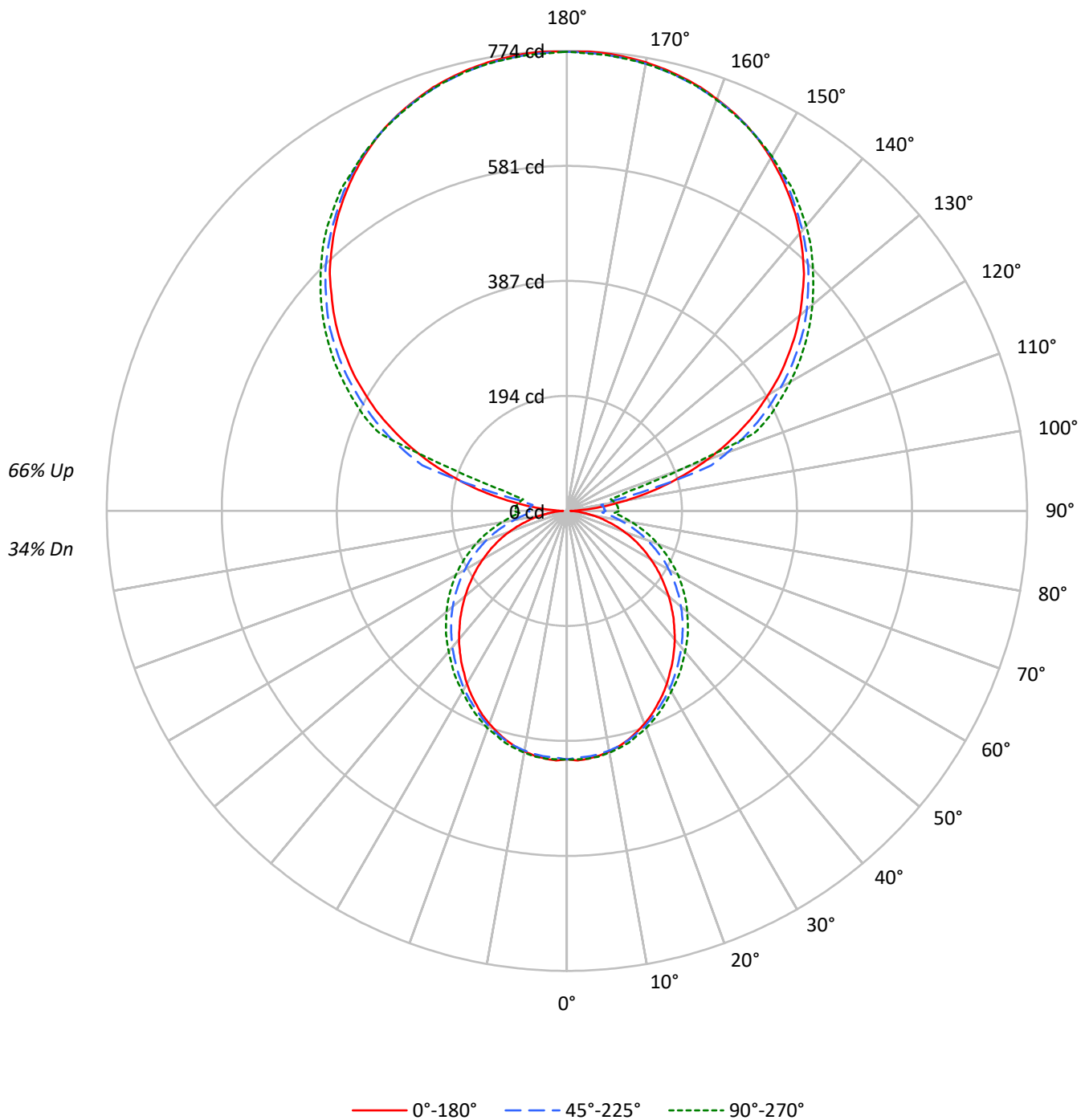
Lumens per Lamp: N/A
Luminaire Lumens: 3762.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42
1	94	89	85	81	84	80	77	74	64	62	60	49	48	46	36	35	34
2	85	77	71	66	76	70	64	60	56	52	49	43	40	38	31	29	28
3	77	68	60	54	69	61	55	50	49	44	41	38	34	32	27	25	23
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13
8	51	38	31	26	46	35	28	24	28	23	20	22	18	16	16	14	12
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4500	4500	4500
5°	4512	4368	4365
10°	4470	4250	4217
15°	4411	4119	4061
20°	4327	3973	3894
25°	4224	3809	3720
30°	4118	3660	3545
35°	4000	3505	3403
40°	3885	3363	3253
45°	3760	3225	3129
50°	3636	3089	2995
55°	3499	2948	2872
60°	3363	2805	2746
65°	3225	2652	2597
70°	3019	2481	2444
75°	2754	2286	2287
80°	2448	2088	2107
85°	2142	1927	1979

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.1
10°-20°	113.1	3.0
20°-30°	169.1	4.5
30°-40°	201.9	5.4
40°-50°	211.2	5.6
50°-60°	198.2	5.3
60°-70°	165.5	4.4
70°-80°	118.4	3.1
80°-90°	72.0	1.9
90°-100°	71.5	1.9
100°-110°	164.3	4.4
110°-120°	344.5	9.2
120°-130°	422.2	11.2
130°-140°	443.3	11.8
140°-150°	410.5	10.9
150°-160°	330.2	8.8
160°-170°	213.1	5.7
170°-180°	73.4	2.0
0°-30°	321.8	8.6
0°-40°	523.6	13.9
0°-60°	933.0	24.8
0°-90°	1288.9	34.3
90°-120°	580.3	15.4
90°-150°	1856.4	49.3
90°-180°	2473.0	65.7
0°-180°	3762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	418	418	415	418	418	40
15°	398	400	399	404	404	112
25°	360	364	366	372	372	166
35°	310	317	323	330	332	194
45°	253	264	276	284	288	195
55°	193	208	224	237	240	173
65°	133	151	171	185	189	132
75°	72	94	117	132	137	77
85°	22	45	69	85	89	23
90°	6	34	65	83	89	6
95°	40	34	63	81	86	46
105°	175	192	160	71	76	185
115°	323	332	354	370	376	319
125°	454	458	474	484	489	406
135°	564	567	574	584	585	434
145°	650	654	655	660	662	407
155°	716	715	715	718	715	330
165°	755	753	752	757	753	213
175°	773	770	770	774	770	74
180°	773	773	773	773	773	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	418.1	418.1	418.1	418.1	418.1
2.5°	420.3	419.0	415.3	419.0	418.5
5°	418.5	417.6	414.9	418.5	418.1
7.5°	415.3	415.3	412.6	417.1	416.7
10°	410.8	411.7	409.4	414.0	413.0
12.5°	405.3	406.7	405.3	409.4	408.5
15°	398.5	399.8	399.4	403.9	403.5
17.5°	390.3	393.0	392.6	396.7	395.7
20°	381.2	383.9	384.8	388.9	389.4
22.5°	371.6	374.3	375.7	381.2	380.7
25°	359.8	364.3	365.7	371.6	371.6
27.5°	348.4	353.4	356.1	361.1	361.6
30°	336.1	342.0	345.6	351.1	351.1
32.5°	322.4	329.3	334.3	340.2	341.6
35°	309.7	317.0	322.9	329.7	331.5
37.5°	296.0	304.2	311.0	318.8	320.1
40°	282.3	290.5	299.7	307.4	309.2
42.5°	267.3	277.8	287.4	296.0	298.7
45°	253.2	264.1	275.5	284.2	287.8
47.5°	238.2	250.5	263.2	272.8	275.5
50°	223.6	236.4	250.5	260.9	264.1
52.5°	208.1	221.8	237.7	248.6	252.7
55°	193.1	208.1	224.5	236.8	240.5
57.5°	178.5	194.0	211.8	224.1	228.2
60°	163.0	179.4	198.1	210.9	215.9
62.5°	148.5	165.3	185.3	198.1	202.7
65°	133.4	151.2	171.2	184.9	189.4
67.5°	118.4	137.1	157.1	172.1	175.8
70°	102.5	122.0	143.9	158.5	163.0
72.5°	87.9	107.5	130.2	145.3	149.8
75°	72.4	93.8	116.6	131.6	137.1
77.5°	59.2	80.6	103.4	119.3	123.4
80°	45.1	67.4	91.1	106.6	111.1
82.5°	32.8	55.6	79.7	95.2	99.7
85°	22.3	45.1	69.2	84.7	89.3
87.5°	13.7	36.4	59.7	75.1	79.7
90°	6.5	34.5	65.3	83.0	88.7
92.5°	18.7	34.8	62.7	81.7	86.4
95°	40.0	34.3	62.9	81.0	85.6
97.5°	68.3	68.5	60.8	79.0	84.1
100°	101.1	127.2	58.5	76.3	81.5
102.5°	138.5	158.8	79.4	73.1	78.9
105°	174.7	192.0	159.9	71.0	76.3
107.5°	212.7	227.5	254.7	178.6	107.5
110°	250.7	263.5	288.0	280.9	202.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.4	297.8	321.4	338.0	341.0
115°	323.2	332.0	353.6	370.3	376.2
117.5°	358.8	366.4	384.8	400.3	404.5
120°	391.0	398.5	415.2	430.3	433.5
122.5°	424.3	429.2	445.6	458.6	462.3
125°	453.7	458.3	473.8	484.5	488.8
127.5°	483.6	487.7	501.9	512.8	514.8
130°	511.1	515.2	526.6	537.6	539.2
132.5°	537.0	541.6	550.2	560.7	562.1
135°	564.0	567.1	574.4	584.3	584.8
137.5°	587.0	591.2	595.4	605.6	606.7
140°	609.5	613.0	616.0	625.2	626.3
142.5°	630.8	633.7	635.4	643.1	643.6
145°	650.3	653.8	655.0	659.7	661.6
147.5°	668.7	671.6	672.8	675.3	674.2
150°	686.0	687.7	688.8	690.0	689.2
152.5°	701.5	702.0	702.6	704.9	702.0
155°	715.8	714.7	715.2	718.1	714.7
157.5°	727.3	727.3	726.7	730.2	725.6
160°	737.6	737.0	736.5	739.9	735.9
162.5°	747.4	745.7	745.1	749.1	745.7
165°	754.8	753.1	752.5	757.1	753.1
167.5°	761.2	758.9	758.9	763.5	758.9
170°	766.3	764.0	764.0	768.6	764.0
172.5°	769.8	766.9	767.5	772.1	766.9
175°	772.6	769.8	770.3	774.4	769.8
177.5°	773.8	770.9	771.5	776.1	770.3
180°	772.6	772.6	772.6	772.6	772.6

(END OF REPORT)